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Subject: 2004 Forest Insect and Disease Aerial Detection Survey Results – A-S NF (alpinerd) (blackmesard) (cliftonrd) (lakesiderd) (springervillerd)

To: Forest Supervisor, Apache-Sitgreaves National Forests

The 2004 insect and disease aerial detection survey has been completed for Arizona. Bobbe Fitzgibbon, Entomologist, Forest Health, Arizona Zone flew over the Apache-Sitgreaves NF and adjacent state and private forested lands July 26 & 27 and August 10-12, 2004. The data from those surveys have been processed for the Apache-Sitgreaves NF and enclosed are a map and spreadsheet showing insect and disease activity detected during these surveys. Copies of this letter, maps and spreadsheet have been forwarded to the Districts of your Forest. Electronic ARC/Info files have also been sent to the Forest. The following is a brief summary of observed activity.
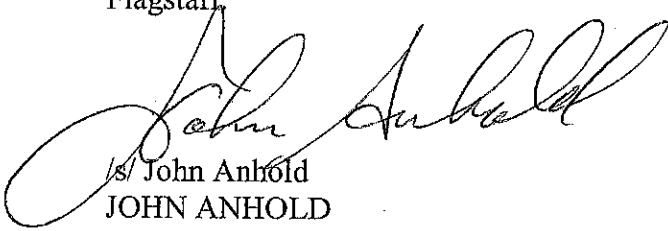
Pine mortality caused by bark beetles has continued to decline statewide. However, some areas continue to experience higher than normal levels of tree mortality. On the Apache-Sitgreaves NF, bark beetle-caused tree mortality decreased from 281,512 acres in 2003 to 26,635 acres in 2004. There were significant drops in tree mortality in both piñon and ponderosa pine. However, there are still scattered pockets of ponderosa pine mortality throughout the Forest. Most of the Douglas-fir and spruce mortality caused by bark beetles continues to occur on the Alpine RD.

Aspen decline, noted as aspen defoliation in the spreadsheet, decreased statewide and on the Apache-Sitgreaves NF. Approximately 5,329 acres were affected on the Apache-Sitgreaves NF in 2004, primarily on the Apache side of the Forest. Affected areas have a combination of symptoms including reduced canopy, branch dieback and mortality. Also, many of these sites appear to be associated with poor site quality, shallow soils, and defoliation by a severe frost that occurred in early June of 1999.

Spruce aphid caused defoliation has decreased in 2004 to approximately 5,185 acres. This in comparison to 49,386 acres detected in 2003. This decrease is due partially to a decline in the spruce aphid population and partially to spruce mortality caused by heavy defoliation in previous years (a decline in suitable host type).

If you have any questions regarding the survey data, please contact Bobbe Fitzgibbon at (928) 556-2072 or via e-mail at rfitzgibbon@fs.fed.us. For any future assistance you may have regarding forest health issues on your forest please feel free to contact any of our staff here in Flagstaff.

/s/ John Anhold
JOHN ANHOLD
Arizona Zone Leader Forest Health

Enclosure

cc: Deb Bumpus, Gayle Richardson, Joseph A Hamrick, William H Ripley, Monica Boehning, Leonard Lucero, Debra Allen-Reid, Steve Dudley, Bobbe Fitzgibbon, MaryLou Fairweather, Joel McMillin

Arizona: Aerial Detection Survey Results by Site for 2004, 2003, 2002 & 2001 (in acres)

Site	Western Pine Beetle	Mountain Pine Beetle	Round-headed Pine Beetle	Ponderosa Ips	Pinon Ips	Doug-fir Beetle	Spruce Beetle	True Fir Beetles	Bark Beetle Totals	Western Spruce Budworm	Spruce aphid	Unkown Geometrid	Aspen defol	Drought	Defoliation Total
2004															
Apache-Sitgreaves NF	228			11,444	2,975	5,644	3,895	2,449	26,635	11	5,185		5,329		10,525
Coconino NF	303			11,048	748	4,367	267	1,713	18,446				2,290	18,208	20,498
Coronado NF	6		314	628	64	978		1	1,991					845	845
Kaibab NF	3			29,807	6,922	615		1,065	38,412				5,329	14,683	20,012
Prescott NF				8,851		45			8,896					1,858	1,858
Tonto NF				6,365	26	687			7,078				72	198	270
Grand Canyon NP		6		3,196		11		140	3,353				5,741	4	5,745
Chiricahua NM			210			2			212						0
Saguaro NM				11					11					563	563
Walnut Canyon NM				13		16			29					317	317
BLM	1			2,834	160	145		45	3,185						0
Fort Apache Tribal	144			7,450	69	92	2,256	27	10,038		23,515		4,820		28,335
Hualapai Tribal				196	180				376						0
Navajo Tribal	108			419	10,275	6	122	58	10,988	10,702			5,090		15,792
San Carlos Tribal	62			53	29			2	146						0
Hopi Tribal					15				15						0
Nav-Hopi JUA					5				5						0
State & Private	7			2,248	2,296	161	1	3	4,716		28		222	2,636	2,886
2004 Arizona Total	862	6	524	84,563	23,764	12,769	6,541	5,503	134,532	10,713	28,728		28,893	39,312	107,646
2003															
Apache-Sitgreaves NF	37			122,576	145,889	1,447	6,108	5,455	281,512		49,386		30,720		80,106
Coconino NF				71,816	148,483	5,514		2,632	228,445				5,846	4,165	10,011
Coronado NF			4,531	1,069	814	48		751	7,213					17,480	17,480
Kaibab NF	7,833	79		64,195	158,951	1,282		365	232,705				951	2,522	3,473
Prescott NF				93,112	30,143			68	123,323					8,072	8,072
Tonto NF				161,178	23,897	1,281		17	186,373				21	188	209
Grand Canyon NP		112		986	5,347	72		1,142	7,659	1,211				126	1,337
Chiricahua NM									0					94	94
Saguaro NM				140					140					12	12
Walnut Canyon NM				1,805	45				1,850						
BLM				2,086	32,057				34,143				14	2,802	2,816
Fort Apache Tribal	59			81,018	8,242	133	396	333	90,181		71,587	1,037	20,998		93,622
Hualapai Tribal				614	29,587				30,201					934	934
Navajo Tribal	55			33,177	256,220	375	3,561		293,388	22,859			13,943	169	36,971
San Carlos Tribal				28,819	37,266			108	66,193		89				89
Hopi Tribal					14,583				14,583						0
Nav-Hopi JUA					131,352				131,352						
State & Private	2			32,161	120,283	213	79	72	152,810		60		430	3,374	3,864
2003 Arizona Total	7,986	191	4,531	694,752	1,143,159	10,365	10,144	10,943	1,882,071	24,070	121,122	1,037	72,923	39,938	259,090

2002	Western Pine Beetle	Mountain Pine Beetle	Round-headed Pine Beetle	Ponderosa Ips	Pinon Ips	Doug-fir Beetle	Spruce Beetle	True Fir Beetles	Bark Beetle Totals	Western Spruce Budworm	Spruce aphid	Unkown Geometrid	Aspen defol	Drought	Defoliation Total
Apache-Sitgreaves NF				110,051	169	576	15,682	3,420	129,898			737	12,146	1,938	14,821
Coconino NF		128		60,293	33,968	914		4,558	99,861				5,222	1,653	6,875
Coronado NF			7,451	2,806	280	566	1,233	583	12,919				54	6,542	6,596
Kaibab NF		4		6,012	1,269			80	7,365				16,370	4,129	20,499
Prescott NF				75,579	40				75,619					3,008	3,008
Tonto NF				66,584		25		86	66,695				49	260	309
Grand Canyon NP		59				1		5	65	175			4,221	305	4,701
Chiricahua NM									0						0
Saguaro NM				489					489					3,694	3,694
Walnut Canyon NM				1,383					1,383						
BLM				992					992					11	11
Fort Apache Tribal				61,341	1,693	12	15,585	187	78,818			5,879	3,156		9,035
Hualapai Tribal				195	786				981						0
Navajo Tribal				6,546	17,700	33	2,653		26,932	11,256			3,223	4,111	18,590
San Carlos Tribal				111,219	4,197			3	115,419						0
Hopi Tribal					10,275				10,275						0
State & Private									0						0
2002 Arizona Total	0	191	7,451	503,490	70,377	2,127	35,153	8,922	627,711	11,431		6,616	44,441	25,651	88,139

2001	Western Pine Beetle	Mountain Pine Beetle	Round-headed Pine Beetle	Ponderosa Ips	Pinon Ips	Doug-fir Beetle	Spruce Beetle	True Fir Beetles	Bark Beetle Totals	Western Spruce Budworm	Spruce aphid	Unkown Geometrid	Aspen defol	Drought	Defoliation Total
Apache-Sitgreaves NF	3,840			755	10	150	10	1,445	6,210	70			14,150		14,220
Coconino NF	30			315	3,350	1,965		4,265	9,925				2,100		2,100
Coronado NF			2,140				630		2,770						0
Kaibab NF	15			35	470			80	600	9,515			11,525		21,040
Prescott NF				8,090					8,090						0
Tonto NF				23,605				10	23,615				10		10
Grand Canyon NP		50		5				125	180	40			910		950
Chiricahua NM									0						0
Saguaro NM									5						0
Walnut Canyon NM	5			100	2,300				2,400						0
BLM	365			6,705	60			5					15		15
Fort Apache Tribal															
Hualapai Tribal													6,965		
Navajo Tribal	30			75	5		55			4,540			3,220		
San Carlos Tribal	40			25,335											
State & Private	50			895			5						300		
2001 Arizona Total	4,375	50	2,140	65,915	6,195	2,115	700	5,930	53,795	14,165		0	39,195	0	38,335